

DAFTAR PUSTAKA

1. Winkjosastro.2005. Ilmu Kandungan.Jakarta: Yayasan Bina Pustaka Sarwono. Prawirohadjo.
2. Makker K, Garwal S, Sharma R (2009). Oxidative stress & male infertility. *Indian J Med Res.* 129: 357-67.
3. Megawati, E. R. 2008. *Penurunan Jumlah Sperma Hewan Coba Akibat Paparan Monosodium Glutamate*. Medan: Universitas Sumatera Utara. hlm. 8.
4. Wu C. 2004. Urinary 8-OHdG: a marker of oxidative stress to DNA and a risk factor for cancer, atherosclerosis and diabetic.
5. Farombi EO, Onyema OO. 2006. Monosodium glutamate-induced oxidative damage and genotoxicity in the rat: modulatory role of vitamin C, E, and quercetine.
6. Nosseir. 2012. A Histological and Morphometric Study of Monosodium Glutamate Toxic Effect on Testicular Structure and Potentiality of Recovery in Adult Albino Rats.
7. Lotfy M (2006). Biological activity of bee propolis in health and disease. *Asian Pac J Cancer Prev*, 7: 22-31.
8. Kurniawan, (2009). Infertilitas Pasutri. Artikel muslimah, (online). <http://muslimah.or.id/kesehatanmuslimah/infertilitas-pasutri-1.html>, di akses pada 3 oktober 2018.
9. Lailatussaadah, 2014. Hubungan Antara Fragmentasi DNA Sperma dan Viabilitas Sperma Pada Kasus Infertilasi Pria.
10. Roupa, Z., M. Polikandrioti, P. Sotiropoulo, E. Faros, A. Koulouri, G. Wozniak. dan M. Gourni. Causes of infertility in women at reproductive age. 2009. Volume 3.Issue 2. Halaman : 80-87.
11. Riskesdas. (2013). Riset kesehatan dasar. Jakarta: Kementrian Kesehatan RI.
12. Martha Kaihena, 2013. Propolis sebagai imunostimulator terhadap infeksi *Micobacterium tuberculosis*.
13. Arista Damiantry R, Pengaruh pemberian propolis terhadap gambaran histopatologi korteks ginjal tikus (*Rattus Norvegicus*) yang diinduksi Sodium Nitrit.
14. Fida Mushalim Afwan, 2018. Uji Efek Hepatoprotektor Propolis Madu Alam Khas Kalimantan Terhadap Kerusakan Struktur Morfologi Sel Hepar Mencit Jantan (*Mus musculus, L.*) yang Diberi Paparan Asap Rokok.
15. Prasetyo DH, Listyaningsih SE, dan Guntur HA. Ekstrak Etanol Propolis Isolat menurunkan derajat inflamasi dan kadar malondialdehid pada serum tikus model sepsis. *Majalan kedokteran Bandung.* 2013; 45(3): 161-166.
16. Christian Ganda WA, 2014. Pengaruh pemberian ekstrak etanol isolat propolis gunung lawu terhadap hitung spermatozoa mencit model infertilitas pria.

17. Wayan Wena Diartha, Ni Wayan Sudatri Iriani Setyawati, 2016. Pengaruh Pemberian Ekstrak Tauge Ditambah Madu Terhadap Kualitas Spermatozoa Mencit Jantan (*Mus musculus L.*)
18. Ria Damayanti, et al. 2016. Pengaruh Pemberian Propolis terhadap Ekspresi INOS dan Kadar MDA pada Otak Tikus Model Cedera Otak Traumatik
19. Tri Hadi Susanto, 2016. Pengaruh Ekstrak Propolis Terhadap Penekanan Ekspresi Protein *Bcl2*, Peningkatan Ekspresi *p21* dan Induksi Apoptosis Pada Kultur Sel Kanker Servik (*HELA CELL LINE*)
20. Kefer JC, Agrawal A, Sabanegh E. role of antioxidant in the treatment of male infertility. *International Journal of Urology* 2009;16,449 - 57 .
21. HDI Propolis's leaflet, 2018
22. Nakajima Y, Tsuruma K, Shimazawa M, Mishima S, Hara H (2009). Comparison of bee propolis products based on assays of antioxidant capacities. *BMC Complement Altern Med.* 9:4.
23. Simic MG. Urinary biomarkers and the rate of DNA damage in carcinogenesis and anticarcinogenesis. *Mutat Res* 1992; 267: 277-90
24. Umami Kalsum, Syafruddin Ilyas dan Salomo Hutahaean, 2014. Pengaruh Pemberian Vitamin C DAN E Terhadap Gambaran Histologi Testis Mencit (*Mus musculus L.*) Yang Dipajankan Monosodium Glutamat (MSG).
25. Pavlovic V, Cekic S, Kocic G Sokolovic D, Zivkovic V. Effect of monosodium glutamate on apoptosis and Bcl-2/Bax protein level in rat thymocyte culture. *Physiol. Res.* 56,2007, 619 - 26.
26. Verrall, Sylvia, 1997. *Anatomy and physiology applied to obstetrics*. EGC. Jakarta.
27. Janqueira LC, Carneiro J. 2007. *Histologi Dasar*. Edisi 10. Jakarta: EGC.
28. Anthony L, Mescher. 2012. *Histologi Dasar* Janqueira Teks dan Atlas. Jakarta : EGC.
29. Bearden, J. H., Fuquay, J. W. dan Willard, S. T. 2004. *Applied Animal Reproduction*. 6th Ed. New Jersey: Pearson Education.
30. Eroschenko, V.P. 2000. *Atlas Histologi di Fiore*, edisi 9, penerjemah: Tambayong, J., judul buku asli: di Fiore *Atlas of Histology*, 9 th edition, Penerbit Buku Kedokteran EGC, Jakarta. Pp: 215-221.
31. Linda J. H., and J. S. Danny. 2008. *At a Glance: Sistem Reproduksi*. EGC. Jakarta.
32. Dellmaan, B. 1992. *Buku Teks Histologi Veteriner II 3rd*. UI Press. Jakarta.
33. Hamdy F. Moselhy RGR, Saeed Yousef, Susanne P. Boyle. A specific, accurate, and sensitive measure of total plasma malondialdehyde by HPLC. *J Lipid Res* 2013;54.
34. Kanti Bhooshan Pandey SIR. Markers of oxidative stress in erythrocytes and plasma during aging in humans. *Oxidative Medicine and Cellular Longevity* 2010;3(1):2-12.
35. B. Palmieri VS. Oxidative stress tests: overview on reliability and use. Part I *Eur Rev Med Pharmacol Sci* 2007;11:309-342.
36. Olga Espinosa JJN-AN, Felipe J. Chaves, M. Carmen Tormos, Sonia Clapes, Antonio Iradi, Amparo Salvador, Marta Fandos, Josep Redo, Guillermo T. Sa'ez. Urinary 8-oxo-7,8-dihydro-2'-deoxyguanosine (8-oxo-dG), a reliable

- oxidative stress marker in hypertension. *Free Radical Research* 2007 41(5):546-554.
37. Kimberly D. Jacob NNH, Andrzej R. Trzeciak, Michele K. Evans. Markers of Oxidative Stress that are Clinically Relevant in aging and Agerelated Disease. *Mech Agieng Dev. March.* 2013;134 139-157.
 38. Giilnur Andican GB. Oxidative Damage to Nuclear DNA in Streptozotoin-Diabetic Rat Liver: *Clinical and Experimental Pharmacology and Physiology* 2005;32: 663-666.
 39. Y Cheng XR, ASP Gowda, Y Shan, L Zhang, Y-S Yuan, R Patel, H Wu, K Huber-Keener, JW Yang, D Liu, TE Spratt, J-M Yang. Interaction of Sirt3 with OGG1 contributes to repair mitochondrial DNA and protects from apoptotic cell death under oxidative stress. *Cell Death and Disease.* 2013;4(e731).
 40. Bankova, V., 2007. Propolis of Stingless Bee: A Promising Source of Biologically Active Compounds. 1(88-92).
 41. Krell, R. Value-added Products from beekeeping: FAO Agricultural services Bultein No. 124. Food And Agriculture Organization Of The United Nation Rome. 2000.
 42. Gheldof, N., Wang, X.H., Engeseth, N.J. 2002. Identification and quantification of antioxidant components of honeys from various floral sources. *J Agric Food, Chem* 50:5870–7.
 43. Thufiqurrachman, Eni Widayati, Anindiya Kusuma W, 2012. Proteksi Spermatozoa dengan Propolis Terhadap ROS Pada Tikus Jantan Galur Wistar yang Diinduksi Oleh Monosodium Glutamat (MSG)
 44. Sandhar, K.H. Bimlesh, K., Prasher, S., Prashant, T., Salhan, M. and Sharma, P. 2011. A Review of Phytochemistry and Pharmacology of Flavonoids. *International Pharmaceutica Scientia.* Vol 1. Issue 1.
 45. T Takeuchi, S Kobayashi, M Tanabe, and T Fujiwara. *In vitro inhibition of Giardia lamblia and Trichomonas vaginalis growth by bithionol, dichlophene, and hexachlorophene.* *Antimicrob Agents Chemother.* 1985 Jan; 27(1): 65-70.
 46. Bergen HI Mizuno TM, Taylor J. Hyperphagia and weight gain after gold thioglucose and monosodium glutamate: relation to hypothalamic neuropeptide Y *Endocrinology*, t39,1998, p. 4483 -88.
 47. World Health Organization. WHO manual for the standardized investigation and diagnosis of infertile couples. Cambridge, UK: Cambridge University Press, 2000.
 48. Noor, A. N. and Mourad, M.I. 2010 Evaluation of Antioxidant Effect of Nigella sativa oil on Monosodium Glutamate-Induced Oxidative Stress in Rat Brain. *Journal of American Science* 6 : (12).
 49. Marwa A. A. and Manal R. A. 2011. Evaluation of Monosodium Glutamate Induced Neurotoxicity and Nephrotoxicity in Adult Male Albino Rats. *Journal of American Science* 7 : (8)
 50. Madesh, M and Hajnoczky, G. 2001. VDAC-Dependent Permeabilization of The Outer Mitochondrial Membrane by Superoxide Induces Rapid and Massive Cytochrome c Release. *J Cell Biol* 155:1003-1015.

51. Uke Y.S.; 2008. *Efek Toksik Monosodium Glutamat (MSG) pada binatang percobaan*. Sutisning, Vol.3. thn II. 306-314.
52. Siregar JH. 2009. *Pengaruh Pemberian Vitamin C terhadap Jumlah Sel Leydig dan Jumlah Sperma Mencit Jantan Dewasa yang Dipapari Monosodium Glutamate*. Universitas Sumatra Utara. Thesis.
53. Gonzales-Burgos, I.; Perez-Vega, M.I.; Beas-Zarate, C. 2001. Neonatal exposure to monosodium glutamate induces cell death and dendritic hypothyrophy in rat prefrontocortical pyramidan neurons. *Neuroscience letter* 297(2001)69-72.
54. Hirata, A.E.; Vaskevicius, P.; Dolnikoff, M.S. 2001. Monosodium glutamate (MSG)-obese rats develop glucose intolerance and insulin resistance to peripheral glucose uptake. *Braz J Med Biol Res*. 2001 May;30(5):671-4.
55. Pizzi, W.J., Barnhart, J.E., dan Fanslow, D.J. (2003). Monosodium Glutamat Administration to the Newborn Reduces Reproductive Ability in Female and Male Mice. *Science*. 196(4288): 452-454.
56. Muharani, E. 2016. *Pengaruh Pemberian MSG pada Tikus Sprague-Dowley Betina Usia Reproduksi selama 2 minggu terhadap Kadar Enzim Penanda Kerusakan Sel Hati (AST/ALT)*. Universitas Islam Negeri Syarif Hidayatullah. Jakarta.
57. Vinodini, N.J., A.J Nayanatara,., G Damodara,., B.J Ahamed,., C Ramaswany,. 2008. Effect Of Monosodium Glutamate Induced Oxidative Damage on Rat Testis. *J. Chinese Clin. Med*. 3. 370 – 373.
58. Rittirsch D, Flierl MA, Ward PA. Harmful molecular mechanisms in sepsis. *Nat Rev Immunol*. 2008;8(10):776–87.
59. Sukmaningsih AASA, Ermayanti IGAM, Wiratmini NI, Sudatri NW. 2011. Gangguan spermatogenesis setelah pemberian monosodium glutamat pada mencit. *Jurnal Biologi* ;15(2):49-52.
60. Aitken J. 2003 *Oxidative stress in the male germ line and its role in the etiology of male infertility & genetic disease*. *RBM online* ; 7(1):2003;65–70.
61. Iflahah MA, Puspawati NM, Suaniti NM, *et al*. 2016. Aktivitas Antioksidan Biji Kakao (*Theobroma cacao L*) Dalam Menurunkan Kadar 8-Hidroksi-2' deoksiguanosin ; 4:113-119.
62. Ozegbe, P.C. dan Omirinde, J.O. Comparative Morphophysiological Evaluation of the Testis of Adult Wistar Rats Fed Low Protein-Energy Diet and Dosed with Aqueous Extracts of *Cuscuta australis*. *Niger J Physiol Sci*, 2012; 27 (2): 149-155.
63. Mescher, A.L. *Histologi Dasar Junqueira* (Edisi ke-12). Jakarta: EGC. 2012.
64. Sherwood, L. *Fisiologi Manusia: dari Sel ke Sistem* (Edisi ke-6). Jakarta: EGC. 2012
65. Suarsana, IN., Wresdiyati, T. dan Suprayogi, A. Respon Stres Oksidatif dan Pemberian Isoflavon terhadap Aktivitas Enzim Superoksida Dismutase dan Peroksidasi Lipid pada Hati Tikus. *Jurnal Ilmu Ternak dan Veteriner*, 2013; 18 (2): 146-152.
66. Apriliani, M., Nurcahayani, N. dan Busman, H. Efek pemberian propolis terhadap Jumlah Selsel Spermatogenik dan Tubulus Seminiferus Mencit (*Mus musculus L.*). *Lembaga Penelitian Universitas Lampung*. 2013.

67. Du Plessis SS, Cabler S, McAlister DA, Sabanegh E and Agarwal A. The effect of obesity on sperm disorders and male infertility. *Nature Review Urology*. 2010. 153–161.
68. Agarwal A, SR Shyam, Allamaneni. Oxidants and antioxidants in human fertility. American Society for Reproductive Medicine. 2004. Vol 80 no 3.
69. Bataineh HN, Nusier M.K. Effect of cholesterol diet on reproductive function in male albino rats department of physiology and biochemistry and molecular biology. *Saudimed j*. 2005. vol 26.
70. Sukawan UY. 2008. Efek Toksik Monosodium Glutamat (MSG) pada Binatang Percobaan. Universitas Indonesia. Thesis
71. Nakajima H, Unoda K, Ito T, Kitaoka H, Kimura F, Hanafusa T. The relation of urinary 8-OHdG, a marker of oxidative stress to dna, and clinical outcomes for ischemic stroke. *Open Neurol J*. 2012;6:51–7.
72. Kumuzawa S, Hitomi G, Tomoko H, Syuichi F, Takunori F, dan Tsutomu N. 2006. *A New prenylated flavonoid from propolis collected in Okinawa, Japan*. *Biosci biotechnol Biochem* 68 (1) : 260-262.
73. Fatoni, Amin. 2008. Pengaruh propolis *Trigona Spp*. Asal Bukit Tinggi Terhadap Beberapa Bakteri Usus Halus Sapid dan Penelusuran Komponen Aktifnya. Thesis. Institut Pertanian Bogor. Hal :17-40
74. Victor Rodwell ; David Bender ; Kathleen M. Botham ; Peter J. Kennelly ; P. Anthony Weil. *Harper's Illustrated Biochemistry 30th Edition*. USA; 2015.
75. Stupack DG. 2013. Caspase-8 as a Therapeutic Target in Cancer. *Cancer Lett*. 28; 332(2): 133–140.